

KAUSHAL, T.
Appl. No. To be assigned
US National Phase of PCT/EP03/50073
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REMARKS/ARGUMENTS

The claims have been amended to reduce the filing fees, without prejudice.

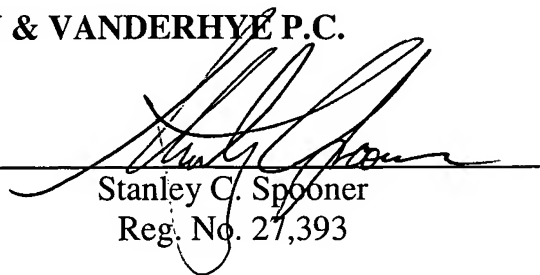
The specification has been amended to include a cross-reference to the parent applications and to include the abstract.

An early and favorable Action on the merits is earnestly solicited.

Respectfully submitted,

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By: _____


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ABSTRACT

A micro-electromechanical system (MEMS) comprises a substrate incorporating an oscillatory ring, forcing electrodes for driving the ring into resonance, and sensing electrodes providing an electrical output signal dependent on oscillation of the ring as a result of such forcing and any externally applied force. A positive feedback circuit is provided for feeding back a signal dependent on the output signal of the sensing electrodes to the forcing electrodes in order to sustain oscillation of the ring. The use of positive feedback to drive the forcing electrodes in order to sustain oscillation of the ring is highly advantageous in such an application since it produces a system which exhibits very low phase noise of a magnitude considerably less than the phase noise experienced in use of a phase-lock loop circuit to sustain oscillation.